SEQUENCE LISTING

ECENTER TOOKS

<110> MATHEW, PORUNELLOOR A. BOLES, KENT S.

<120> LLT USES THEREOF IN IMMUNE SYSTEM MODULATION

<130> 40170.3US01

<140> 09/475,365

<141> 1999-12-30

<160'> 10

<170> PatentIn Ver. 2.1

<210> 1

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1

Lys Ala Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile Met Phe Leu Thr 1 5 10 15

Ile Ile Val Cys Gly Met Val Ala Ala Leu Ser Ala Ile 20 25

<210> 2

<211> 191

<212> PRT

<213> Homo sapiens

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Met His Asp Ser Asn Asn Val Glu Lys Asp Ile Thr Pro Ser Glu Leu

1 10 15

Pro Ala Asn Pro Gly Cys Leu His Ser Lys Glu His Ser Ile Lys Ala

Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile Met Phe Leu Thr Ile Ile 35 40 45

Val Cys Gly Met Val Ala Ala Leu Ser Ala Ile Arg Ala Asn Cys His 50 60

Gln Glu Pro Ser Val Cys Leu Gln Ala Ala Cys Pro Glu Ser Trp Ile

Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser Asp Asp Thr Lys Asn Trp 85 90 95

Thr Ser Ser Gln Arg Phe Cys Asp Ser Gln Asp Ala Asp Leu Ala Gln
100 105 110

Val Glu Ser Phe Gln Glu Leu Asn Phe Leu Leu Arg Tyr Lys Gly Pro 115 120 125

a

Ser Asp His Trp Ile Gly Leu Ser Arg Glu Gln Gly Gln Pro Trp Lys 130 135 140

Trp Ile Asn Gly Thr Glu Trp Thr Arg Gln Phe Pro Ile Leu Gly Ala 145 150 155 160

Gly Glu Cys Ala Tyr Leu Asn Asp Lys Gly Ala Ser Ser Ala Arg His 165 170 175

Tyr Thr Glu Arg Lys Trp Ile Cys Ser Lys Ser Asp Ile His Val 180 185 190

<210> 3

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3

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Pro Ala Asn Pro Gly Cys Leu His Ser Lys Glu His Ser Ile 20 25 30

<210> 4

<211> 132

<212> PRT

<213> Homo sapiens

<400> 4

Arg Ala Asn Cys His Gln Glu Pro Ser Val Cys Leu Gln Ala Ala Cys
1 5 10 15

Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser Asp

Asp Thr Lys Asn Trp Thr Ser Ser Gln Arg Phe Cys Asp Ser Gln Asp 35 40 45

Ala Asp Leu Ala Gln Val Glu Ser Phe Gln Glu Leu Asn Phe Leu Leu 50 55 60

Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly Leu Ser Arg Glu Gln
65 70 75 80

Gly Gln Pro Trp Lys Trp Ile Asn Gly Thr Glu Trp Thr Arg Gln Phe
85 90 95

Pro Ile Leu Gly Ala Gly Glu Cys Ala Tyr Leu Asn Asp Lys Gly Ala
100 105 110

Ser Ser Ala Arg His Tyr Thr Glu Arg Lys Trp Ile Cys Ser Lys Ser 115 120 125

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Asp Ile His Val

<210> 5 <211> 850 <212> DNA <213> Homo sapiens

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<213> Homo sapiens

<400> 6

Met Met Thr Lys His Lys Lys Cys Phe Ile Ile Val Gly Val Leu Ile 1 5 10 15

Thr Thr Asn Ile Ile Thr Leu Ile Val Lys Leu Thr Arg Asp Ser Gln
20 25 30

Ser Leu Cys Pro Tyr Asp Trp Ile Gly Phe Gln Asn Lys Cys Tyr Tyr 35 40 45

Phe Ser Lys Glu Glu Gly Asp Trp Asn Ser Ser Lys Tyr Asn Cys Ser 50 55 60

Thr Gln His Ala Asp Leu Thr Ile Ile Asp Asn Ile Glu Glu Met Asn 65 70 75 80

Phe Leu Arg Arg Tyr Lys Cys Ser Ser Asp His Trp Ile Gly Leu Lys 85 90 95

Met Ala Lys Asn Arg Thr Gly Gln Trp Val His Gly Ala Thr Phe Thr 100 105 110

Lys Ser Phe Gly Met Arg Gly Ser Glu Gly Cys Ala Tyr Leu Ser Asp 115 120 125 'Asp Gly Ala Ala Thr Ala Arg Cys Tyr Thr Glu Arg Lys Trp Ile Cys 130 135 140

Arg Lys Arg Ile His

<210> 7

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<212> PRT

<213> Homo sapiens

<400> 7

Met Ser Ser Glu Asn Cys Phe Val Ala Glu Asn Ser Ser Leu His Pro 1 5 10 15

Glu Ser Gly Gln Glu Asn Asp Ala Thr Ser Pro His Phe Ser Thr Arg
20 25 30

His Glu Gly Ser Phe Gln Val Pro Val Leu Cys Ala Val Met Asn Val 35 40 45

Val Phe Ile Thr Ile Leu Ile Ile Ala Leu Ile Ala Leu Ser Val Gly
50 55 60

Gln Tyr Asn Cys Pro Gly Gln Tyr Thr Phe Ser Met Pro Ser Asp Ser 65 70 75 80

His Val Ser Ser Cys Ser Glu Asp Trp Val Gly Tyr Gln Arg Lys Cys
85 90 95

Tyr Phe Ile Ser Thr Val Lys Arg Ser Trp Thr Ser Ala Gln Asn Ala

Cys Ser Glu His Gly Ala Thr Leu Ala Val Ile Asp Ser Glu Lys Asp 115 120 125

Met Asn Phe Leu Lys Arg Tyr Ala Gly Arg Glu Glu His Trp Val Gly 130 135 140

Leu Lys Lys Glu Pro Gly His Pro Trp Lys Trp Ser Asn Gly Lys Glu 145 150 155 160

Phe Asn Asn Trp Phe Asn Val Thr Gly Ser Asp Lys Cys Val Phe Leu 165 170 175

Lys Asn Thr Glu Val Ser Ser Met Glu Cys Glu Lys Asn Leu Tyr Trp 180 185 190

Ile Cys Asn Lys Pro Tyr Lys 195

<210> 8

<211> 216

<212> PRT

<213> Homo sapiens

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Met Gly Trp Ile Arg Gly Arg Arg Ser Arg His Ser Trp Glu Met Ser
1 5 10 15

Glu Phe His Asn Tyr Asn Leu Asp Leu Lys Lys Ser Asp Phe Ser Thr 20 25 30

Arg Trp Gln Lys Gln Arg Cys Pro Val Val Lys Ser Lys Cys Arg Glu 35 40 45

Asn Ala Ser Pro Phe Phe Cys Cys Phe Ile Ala Val Ala Met Gly
50 55 60

Ile Arg Phe Ile Ile Met Val Ala Ile Trp Ser Ala Val Phe Leu Asn 65 70 75 80

Ser Leu Phe Asn Gln Glu Val Trp Ile Pro Leu Thr Glu Ser Tyr Cys 85 90 95

Gly Pro Cys Pro Lys Asn Trp Ile Cys Tyr Lys Asn Asn Cys Tyr Gln
100 105 110

Phe Phe Asp Glu Ser Lys Asn Trp Tyr Glu Ser Gln Ala Ser Cys Met 115 120 125

Ser Gln Asn Ala Ser Leu Leu Lys Val Tyr Ser Lys Glu Asp Gln Asp 130 135 140

Leu Leu Lys Leu Val Lys Ser Tyr His Trp Met Gly Leu Val His Ile 145 150 155 160

Pro Thr Asn Gly Ser Trp Gln Trp Glu Asp Gly Ser Ile Leu Ser Pro 165 170 175

Asn Leu Leu Thr Ile Ile Glu Met Gln Lys Gly Asp Cys Ala Leu Tyr 180 185 190

Ala Ser Ser Phe Lys Gly Tyr Ile Glu Asn Cys Ser Thr Pro Asn Thr 195 200 205

Tyr Ile Cys Met Gln Arg Thr Val

<210> 9

<211> 260

<212> PRT

<213> Homo sapiens

<400> 9

Met Thr Glu Gln Glu Asp Thr Phe Ser Ala Val Arg Phe His Lys Ser 1 5 10 15

Ser Gly Leu Gln Asn Glu Met Arg Leu Lys Glu Thr Arg Lys Pro Glu 20 25 30

Lys Ala Arg Leu Arg Val Pro Trp Gln Leu Ile Val Ile Ala Leu Gly
35 40 45

Ile Leu Ile Ser Leu Arg Leu Val Thr Val Ala Val Leu Met Thr Asn 50 55 60

Glu Cys Asn Leu Leu Glu Ser Leu Asn Arg Asp Gln Asn Ile Leu Cys
65 70 75 80

Asp Lys Thr Arg Thr Val Leu Asp Tyr Leu Gln His Thr Gly Arg Gly 85 90 95

Val Lys Val Tyr Trp Phe Cys Tyr Ile Phe Gln Tyr Gly Gln Gln Lys
100 105 110

His Glu Leu Lys Glu Phe Leu Lys His His Asn Asn Cys Ser Ile Met 115 120 125

Gln Ser Asp Ile Asn Leu Lys Asp Glu Leu Leu Lys Asn Lys Ser Ile 130 135 140

Gly Met Lys Cys Tyr Tyr Phe Val Met Asp Arg Lys Pro Trp Ser Arg 145 150 155 160

Cys Lys Gln Ser Cys Gln Asn Ser Ser Leu Thr Leu Leu Lys Ile Asp 165 170 175

Asp Glu Asp Glu Leu Lys Phe Leu Gln Leu Val Val Pro Ser Asp Ser 180 185 190

Cys Trp Ile Gly Leu Ser Tyr Asp Asn Lys Lys Lys Asp Trp Ala Trp 195 200 205

Ile Asp Asn Arg Pro Ser Lys Leu Ala Leu Asn Thr Thr Lys Tyr Asn 210 215 220

Ile Arg Asp Gly Gly Cys Met Phe Leu Ser Lys Thr Arg Leu Asp Asn 225 230 235 240

Asn Tyr Cys Asp Gln Ser Phe Ile Cys Ile Cys Gly Lys Arg Leu Asp 245 250 255

Lys Phe Pro His

<210> 10

<211> 179

<212> PRT

<213> Homo sapiens

<400> 10

Met Ala Val Phe Lys Thr Thr Leu Trp Arg Leu Ile Ser Gly Thr Leu 1 5 10 15

Gly Ile Ile Cys Leu Ser Leu Met Ala Thr Leu Gly Ile Leu Leu Lys 20 25 30

Asn Ser Phe Thr Lys Leu Ser Ile Glu Pro Ala Phe Thr Pro Gly Pro 35 40 45

a,

170

Asn Ile Glu Leu Gln Lys Asp Ser Asp Cys Cys Ser Cys Gln Glu Lys 55 Ser Asp Cys Cys Ser Cys Gln Glu Lys 65 Ser Val Gly Tyr Arg Cys Asn Cys Tyr Phe Ile Ser Ser Glu Gln Lys 75 Ser Trp Asn Glu Ser Arg His Leu Cys Ala Ser Gln Lys Ser Ser Leu 90 Ser Gln Lys Ser Ser Leu 90 Ser Gln Lys Ser Ser Leu 90 Ser Gln Lys Ser Ser Leu 95 Ser Gln Phe Tyr Trp Ile Gly Leu Ser Tyr Ser Glu Glu His Thr Ala Trp 115 Ser Glu Asn Gly Ser Ala Leu Ser Gln Tyr Leu Phe Pro Ser Phe 130 Thr Phe Asn Thr Lys Asn Cys Ile Ala Tyr Asn Pro Asn Gly Asn 145 Leu Asp Glu Asp Lys Asn Arg Tyr Ile Cys Lys Gln Ala Leu Asp Glu Ser Cys Glu Asp Lys Asn Arg Tyr Ile Cys Lys Gln

Gln Leu Ile

165